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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044,398	01/09/2002	Roy J. Firestone	0026-011	8914
7590	06/21/2004		EXAMINER	
Larry E. Henneman, Jr Hennenman & Saundes 714 W. Michigan Avenue Three Rivers, MI 49093			HWU, DAVIS D	
			ART UNIT	PAPER NUMBER
			3752	

DATE MAILED: 06/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/044,398	FIRESTONE, ROY J.
	Examiner Davis Hwu	Art Unit 3752

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 10 June 2004.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-12 and 22-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-12,22-31 and 39 is/are rejected.
- 7) Claim(s) 32-38 and 40-46 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____

Response to Amendment

1. Applicant's amendment of June 10, 2004 is acknowledged and entered.
2. Applicant's remarks have been considered but are moot in view of the new ground(s) of rejection.
3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-6, 9-11, 22-25, 29, 31, and 39 are rejected under 35 U.S.C. 102(b) as being anticipated by Proudman.

The patent to Proudman shows an apparatus for proportioning a chemical with a solvent, comprising:

- a flow measurement apparatus 22 for measuring the flow rate of the solvent (water);
- a control unit 33 for calculating the quantity of chemical to be added to the solvent based at least in part on the flow rate of the solvent; and
- a flow control device including a pump 28 and a valve 26 for metering the quantity of the chemical added to the solvent.

A user first inputs a desired volume of chemical to be added into the control unit 33.

The control unit then monitors a totalizing flow meter 30 (a second flow measurement apparatus as recited in claim 2) and turns on the valve 26 of the chemical. The control unit monitors the difference between the solvent flow meter 22 and the totalizing flow meter 30 wherein the difference is the volume of the chemical. This volume amount is fed back to the control unit to compare the volume with the desired volume. When the desired volume is reached, the valve 26 closes. Thus, the control unit is continuously calculating the quantity of chemical to be added to the solvent based at least in part on the flow rage of the solvent (Column 3, lines 3-12). Regarding claims 4 and 5, the functional limitations of using cleaning substance and soap do not give the claim patentable weight since these are intended use statements and also the device of Proudman is fully capable of using a cleaning substance or soap as the chemical.

Claim Rejections - 35 USC § 103

6. Claims 7, 8, 12, 26-28, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Proudman.

The flow of the solvent varying during the operation of the apparatus would have been an obvious matter of user preference if the user decides that more or less solvent is required during the operation. Regarding claim 12, the use of the a solenoid valve would have been an obvious matter of design choice since the use of solenoid valves are well known in the art and the use of variable rate and air driven pumps as recited in claims 27 and 18 would also have been obvious matters of design choice since the use of such pumps is also well known in the art.

Allowable Subject Matter

7. Claims 32-38 and 40-46 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The patent to Wise et al. is pertinent to Applicant's invention.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Davis Hwu whose telephone number is 703-305-1663. The examiner can normally be reached on M-F 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Y. Mar can be reached on (703)308-2087. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.



Davis Hwu